Professional Digital Thermometers

Precision, Specialty and Innovation

4-CHANNEL THERMOMETER WITH EXCEL-FORMATTED DATA LOGGING SD CARD

Accurately measures four channels of temperature from -148° to 3092°F (-100° to 1700°C)

FEATURES

- Four independent temperature measurement channels
- Also measures T1-T2 difference between two channels
- Works with and automatically temperature-compensates for six popular thermocouple types: K, J, T, E, S and R
- Combining thermocouple types extends overall measurement range to -148° to 3092°F (-100° to 1700°C)
- Big (2.5 in. diagonal) front-panel green backlit LCD is easy to read
- Displays maximum and minimum readings and holds any reading
- Automatically logs measurements at sampling time settable from one second to one hour
- Also supports manual data logging and changing of SD card storage location
- Auto power off function

SPECIFICATIONS

- Display: 2.05 x 1.5 in. (52 x 38mm) LCD
- Measurement Range:
  - With Pt 100 ohm RTD: -327° to 1562°F
  - With thermocouples: depends on type
- Measurement Accuracy:
  - With Pt 100 ohm probes: ± (0.4% of reading + 1.8°F) from -327° to 999.9°F, ± (0.44 % of reading + 2.0°F) from 1000° to 1562°F)
  - With thermocouples: ± (0.4% of reading + 2.0°F max)
- Data Logging Sampling Time: 1 second to 1 hour
- Settable Parameters: Date, time, decimal point or comma decimal division, auto power off, beep sound, temperature unit, sampling time
- Storable/Recallable Readings: Maximum, minimum
- Operating Temperature: 32° to 122°F (0° to 50°C)
- Operating Relative Humidity: 0 to 85%
- Dimensions: 6.97 x 2.68 x 1.77 in. (177 x 68 x 45mm)
- Weight: 1.13 lb. (515g)
- Power Source: Six "AA" batteries (not included) or optional 9-VDC AC adapter

UPC	NO.
014620 2	**DT4947SD**

Optional Accessories:

01506 3	**AC1**	9VDC adapter for 110V power supply
01436 3	**RTDTP100**	Pt 100 ohm temperature probe
25015 0	**TPK500**	-50° to 500°F "K" type thermocouple
25005 1	**TPK05**	-40° to 562°F "K" type thermocouple
25003 7	**TPK03**	-40° to 950°F "K" type thermocouple
01502 5	**SDRD1**	SD Card Reader

DT4947SD
Patented

Includes:
- Hard carrying case
- Two TPK500 "K" type beaded thermocouple probes
- 2 GB SD memory card
- User's manual
- 1 year warranty

12-CHANNEL TEMPERATURE RECORDER WITH EXCEL-FORMATTED DATA LOGGING SD CARD

Accurately measures 12 channels of temperature from -148° to 3092°F (-100° to 1700°C)

FEATURES

- Twelve independent temperature measurement channels
- Displays up to eight channels at a time; one push of a button switches to Channels 9 through 12
- Works with and automatically temperature-compensates for six popular thermocouple types: K, J, T, E, S and R
- Combining thermocouple types extends overall measurement range to -148° to 3092°F (-100° to 1700°C)
- Can automatically log 12 channels of data every day during same period
- Big (2.5 in. diagonal) front-panel green backlit LCD is easy to read
- Displays maximum and minimum readings and holds any reading
- Automatically logs measurements at sampling time settable from one second to one hour
- Also supports manual data logging and changing of SD card storage location
- Auto power off function

SPECIFICATIONS

- Display: 2.05 x 1.5 in. (52 x 38mm) LCD
- Measurement Range:
  - With included "K" type thermocouples: -148° to 2372°F (-100° to 1300°C)
  - With other thermocouples: depends on type
- Measurement Accuracy:
  - With included "K" type thermocouples: ± (0.4 % of reading + 2.0°F max)
- Operating Temperature: 32° to 122°F (0° to 50°C)
- Operating Relative Humidity: 0 to 85%
- Dimensions: 8.86 x 4.92x 2.52 in. (225 x 125 x 64mm)
- Weight: 2.1 lb. (944g)
- Power Source: Eight "AA" batteries or optional 9-VDC AC adapter

UPC	NO.
01463 9	**DT4208SD**

Optional Accessories:

01506 3	**AC1**	9VDC adapter for 110V power supply
25015 0	**TPK500**	-50° to 500°F "K" type thermocouple
25005 1	**TPK05**	-40° to 562°F "K" type thermocouple
25003 7	**TPK03**	-40° to 950°F "K" type thermocouple
01502 5	**SDRD1**	SD Card Reader

DT4208SD
Patented

Includes:
- Hard carrying case
- Two TPK500 "K" type beaded thermocouple probes
- 2 GB SD memory card
- User's manual

ENVIRONMENTAL METER WITH EXCEL-FORMATTED DATA LOGGING SD CARD

Accurately measures air (wind) speed + temperature, air temperature + humidity, light & sound levels, surface temperature.

FEATURES

- Multi-function probe measures air speed and temperature, air temperature and humidity, and light level. Optional accessories measure surface temperature and sound level
- Big (2.5 in. diagonal) front-panel green backlit LCD is easy to read
- Displays maximum and minimum readings and holds any reading
- Automatically logs measurements at sampling time settable from 1 second to 1 hour
- Also supports manual data logging and changing of SD card storage location
- Auto power off function

SPECIFICATIONS

- ♦ Display: 2.05 x 1.5 in. (52 x 38mm) LCD
- ♦ Parameters Measured: Air temperature, relative humidity (R.H.), air speed, light level
- ♦ Measurement Range:
  - For air speed: 0.4 to 25 m/sec, 1.4 to 90 km/hr, 0.9 to 55.9 mph, 0.8 to 48.6 knots, 80 to 4930 ft/min
  - For temperature: 32° to 122°F (0 to 50°C); for R.H., 10 to 95%
  - For light level: 0 to 20,000 lux, 0 to 1860 ft-cd
- ♦ Measurement Accuracy:
  - For air speed: ± (2% + 0.2 m/sec), ± (2% + 0.8 km/hr), ± (2% + 0.4 mph), ± (2% + 0.4 knots), ± (2% + 40 ft/min)
  - For temperature: 1.5°F (± 0.8°C)
  - For humidity: ± (3% of reading + 1%) for R.H. values ≥70%; ± 3% of reading for R.H values < 70%
  - For light level: ± (5% of reading ± 8 digits)
- ♦ Data Logging Sampling Time: 1 second to 1 hr.
- ♦ Settable Parameters: Date, time, auto power off, beep sound, sampling time, decimal point or comma decimal division, temperature unit, air speed unit, light level unit, optional thermocouple type (K or J)
- ♦ Storable/Recallable Readings: Max/Min
- ♦ Operating Temperature: 32° to 122°F (0° to 50°C)
- ♦ Operating Relative Humidity: 0 to 85%
- ♦ Dimensions of Meter: 5.31 x 2.36 x 1.30 in. (135 x 60 x 33mm)
- ♦ Weight of Meter: 1.13 lb. (515g)
- ♦ Dimensions of Probe: 4.13 x 1.81 x 1.14 in. (105 x 46 x 29mm)
- ♦ Power Source: 6 “AA” batteries or optional 9-VDC AC adapter

DLAF930SD
Patented

Included Accessories:

- Hard carrying case
- Combination temperature/humidity/air speed/light level probe
- 2 GB SD memory card
- User’s manual

UPC	NO.	
01460 8	**DLAF930SD**	
01543 8	**P930SD**	Replacement Sensor

Optional Accessories:

01506 3	**AC1**	9VDC adapter for 110V power supply
25015 0	**TPK500**	-50° to 500°F “K” type thermocouple
25005 1	**TPK05**	-40° to 562°F “K” type thermocouple
25003 7	**TPK03**	-40° to 950°F “K” type thermocouple
UPC #	**SC941**	Sound level probe/plug adapter
01502 5	**SDRD1**	SD Card Reader

3-IN-1 THERMOCOUPLE/RTD/IR THERMOMETER

Ideal for making high- or low-temperature industrial or laboratory measurements and verifying their accuracy using another mode. Also suitable for general-purpose professional use.

FEATURES

- Displays readings from
  a) Any of five popular thermocouple types
  b) 100 Pt Resistance-Temperature Detector (RTD) or
  c) Integral laser-sighted 7:1 IR thermometer with adjustable emissivity
- Very wide measurement range
- High accuracy
- Compatible with Types K, J, T, E and R thermocouples
- Jumbo backlit LCD
- Min/Max memory + data hold + relative measurement
- Sensor and temperature unit switchable on front panel
- RS-232 output
- Auto power off
- Tripod mount

SPECIFICATIONS

- ♦ Measurement Range/Accuracy:
  With “K” type thermocouple, -148°F to 2372°F (-100° to 1300°C)/±0.2% of reading + 1.8°F (1.0°C); With 100 Pt RTD, -328° to 1562°F (-200° to 850°C)/±0.2% of reading + 1°F (1°C); of IR thermometer, -4° to 752°F (-20° to 400°C)/±3% of reading or 5°F (3°C), whichever is greater
- ♦ Display Size: 2.0 x 1.25 in. (51 x 32mm), with 0.6 in. (15mm) high digits
- ♦ IR Thermometer Emissivity Range: Adjustable from 0.2 to 1.0 (factory set to 0.95)
- ♦ Laser Wavelength Range: 6 to 12um
- ♦ Sampling Time: 1 second
- ♦ Power Consumption: 11mADC w/laser off, 16mADC w/laser on
- ♦ Operating Temperature: -32° to 122°F (0° to 50°C)@<80% RH
- ♦ Dimensions: 7.87 x 2.68 x 1.18 in. (200 x 68 x 30mm)
- ♦ Weight: 7.76 oz. (220g)
- ♦ Power Source: 1 “9V” battery (included)

DT2000RTD

Includes: • Soft pouch
• Battery
• User’s manual

UPC	NO.
01460 8	**DT2000RTD**

Optional Accessories: see page I-52/53

ALWAYS WEAR OSHA APPROVED SAFETY GOGGLES

4-CHANNEL THERMOCOUPLE THERMOMETER

Ideal for monitoring up to four very high or low temperatures in a commercial or industrial setting such as food or chemical processing, HVAC, power generation or paper production.

FEATURES

- Measures and displays up to four temperatures simultaneously
- Wide measurement range
- ±0.3% accuracy
- Large backlit LCD
- Min/Max memory + data hold
- RS-232 output

SPECIFICATIONS

- ♦ Measurement Range: -328° to 2498°F (-200° to 1370°C) with included "K" type thermocouple
- ♦ Accuracy: ±0.3% of reading + 2°F (1°C)
- ♦ Resolution: 0.1°F (0.1°C)
- ♦ Input Protection: 60VDC/24VACrms (max)
- ♦ Operating Temperature: -32° to 122°F (0° to 50°C)@<80% RH
- ♦ Storage Temperature: -4° to 140°F (-20° to 60°C)@<70% RH
- ♦ Dimensions: 7.24 x 2.52 x 1.18 in. (184 x 64 x 30mm)
- ♦ Weight: 7.8 oz. (220g)
- ♦ Power Source: 1 "9V" battery (included)

Includes: • 2 "K" type thermocouples • Carrying case • Battery • User's manual

UPC	NO.
01434 9	**DT304**

Optional Accessories: see page I-52/53

DT304

DUAL INPUT DATA LOGGING THERMOCOUPLE THERMOMETER

Ideal for measuring the differential between two very hot or cold temperatures in a laboratory or industrial environment.

FEATURES

- Two inputs + triple display
- Wide measurement range
- ±0.3% accuracy
- Logs up to 16,000 data points via RS-232 interface
- Auto power off
- Data hold function

SPECIFICATIONS

- ♦ Measurement Range: -328° to 2498°F (-200° to 1370°C) with included "K" type thermocouple
- ♦ Accuracy: ±0.3% of reading + 2°F (1°C)
- ♦ Resolution: 0.1°F (0.1°C)
- ♦ Operating Temperature: -32° to 122°F (0° to 50°C)@<80% RH
- ♦ Storage Temperature: -4° to 140°F (-20° to 60°C)@<70% RH
- ♦ Dimensions: 7.24 x 2.52 x 1.18 in. (184 x 64 x 30mm)
- ♦ Weight: 7.4 oz. (210g)
- ♦ Power Source: 1 "9V" battery (included)

Includes: • 2 "K" type thermocouples • RS-232 cable • PC interface software • Carrying case • Battery • User's manual

UPC	NO.
40306 8	**DT306DL**

Optional Accessories: see page I-52/53

DT306DL

4-CHANNEL DATA LOGGING THERMOCOUPLE THERMOMETER

Ideal for monitoring and data logging up to four very high or low temperatures in a commercial or industrial environment such as food or chemical processing, HVAC, power generation or paper production.

FEATURES

- Measures and displays up to four temperatures simultaneously
- Wide measurement range
- ±0.3% accuracy
- Large backlit LCD
- Min/Max memory + data hold
- RS-232 output

SPECIFICATIONS

- ♦ Measurement Range: -328° to 2498°F (-200° to 1370°C) with included "K" type thermocouple
- ♦ Accuracy: ±0.3% of reading + 2°F (1°C)
- ♦ Resolution: 0.1°F (0.1°C)
- ♦ Input Protection: 60VDC/24VACrms (max)
- ♦ Operating Temperature: -32° to 122°F (0° to 50°C)@<80% RH
- ♦ Storage Temperature: -4° to 140°F (-20° to 60°C)@<70% RH
- ♦ Dimensions: 7.24 x 2.52 x 1.18 in. (184 x 64 x 30mm)
- ♦ Weight: 7.8 oz. (220g)
- ♦ Power Source: 1 "9V" battery (included)

Includes: • 2 "K" type thermocouples • RS-232 cable • PC interface software • Carrying case • Battery • User's manual

UPC	NO.
40309 9	**DT309DL**

Optional Accessories: see page I-52/53

DT309DL

WIDE RANGE DUAL PORT DIGITAL THERMOMETER WITH BOOT

For use in labs, industrial control and audits. Ideal for measuring T1-T2 temperature differentials with "K" type or J thermocouples.

DT721

FEATURES

- Jumbo 4-digit LCD
- Readings displayable in °F, °C or °K (Kelvin)
- Includes two "K" type thermocouples; also compatible with Type J
- Hi/Lo alarm and relative temperature mode
- Min/Max/Avg memory + data hold
- Low battery, overload indications
- Auto power off
- Protective rubber housing

SPECIFICATIONS

- Measurement Range: -148° to 2372°F (-100° to 1300°C) with "K" type thermocouple; -148° to 1832°F (-100° to 1000°C) with Type J thermocouple
- Measurement Accuracy: ±0.1% of reading + 1°F (0.8°C)
- Sampling Rate: 1 second
- Battery Life: 550 hours
- Operating Temperature: 32° to 122°F @ 0 to 80% RH
- Storage Temperature: -4° to 140°F @ 0 to 80% RH
- Dimensions: 6.5 x 3.0 x 13 in. (164 x 76 x 32mm)
- Weight: 15 oz. (415g) with batteries
- Power Source: 4 "AAA" batteries (included)

Includes:
- 2 "K" type beaded thermocouples (TPK500)
- Protective boot
- Batteries

UPC	NO.
21009 3	**DT721**

DIGITAL THERMOMETER WITH ONE "K" TYPE PROBE AND CASE

For use in labs, industrial control and audits.

CE RoHS

DT8801

FEATURES

- Single probe input
- Accepts "K" type thermocouple probes
- Data hold
- Max hold
- °F/°C switch
- Auto power off
- CE and RoHS approved

SPECIFICATIONS

- Measurement Range: -58° to 2000°F (-50° to 1093°C)
- Measurement Accuracy: ±1.8°F (±1°C) from -22° to 302°F (-30° to 150°C); ±4°F (2°C) elsewhere
- Probe Length: 5 in. with 3 ft. cord
- Dimensions: 7.1 x 2.8 x 1.2 in. (181 x 71 x 30mm)
- Weight: 5.6 oz. (160g)
- Power Source: 1 "9V" battery (included)

Includes:
- Molded hard case
- "K" type beaded thermocouple (TPK500)
- Battery

UPC	NO.
21005 5	**DT8801**

WATERPROOF DIGITAL THERMOMETER

For use in labs, industrial control and audits.

CE RoHS

DT8811WP

FEATURES

- Waterproof to IP66 standard
- Single input
- Autoranging
- Min/Max memory
- Selectable °F or °C unit
- CE and RoHS approved

SPECIFICATIONS

- Measurement Range: -328° to 2372°F (-200° to 300°C)
- Measurement Accuracy: ±1.8°F (±1°C)
- Sampling Rate: 2x per second
- Dimensions: 7.1 x 2.8 x 1.2 in. (181 x 71 x 30mm)
- Weight: 6.4 oz. (180g)
- Power Source: 1 "9V" battery (included)

Includes:
- Molded hard case
- Waterproof "K" type thermocouple with boot (TPK500)
- Battery

UPC	NO.
21090 1	**DT8811WP**

Optional Accessories: see page I-52/53

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SINGLE THERMOCOUPLE DIGITAL THERMOMETER

Ideal for commercial and industrial applications requiring measurement of very high or low temperatures.

FEATURES

- Dual 5-digit LCD
- Wide measurement range
- Measurement accuracy of ± 0.05% of reading
- Auto power off
- Includes one "K" type thermocouple

SPECIFICATIONS

- ♦ Measurement Range: -328° to 1922°F (-200° to 1050°C) with J-type thermocouple; -328° to 2498°F (-200° to 1370°C) with K-type thermocouple
- ♦ Measurement Accuracy: ± 0.05% of reading
- ♦ Display Size/Type: 1.5 x 1.5 in. (38 x 38mm)/ black & white liquid crystal
- ♦ Operating Temperature: 40° to 104°F (5° to 40°C) @<80% RH
- ♦ Storage Temperature: 14° to 140°F (-10° to 60°C)@<70% RH
- ♦ Input Protection: 24V DC or AC, max
- ♦ Power Source: 9V battery
- ♦ Battery Life: 200 hours, typical
- ♦ Dimensions: 5.12(L) x 2.2(W) x 1.50(H) in. (130 x 56 x38mm)
- ♦ Weight: 6 oz. (170g)
- ♦ Auto Power Off Trigger: 15 minutes of inactivity
- ♦ Powered Source: 1 "9V" battery (included)

Includes: • 1 "K" type thermocouple
• Battery
• User's manual

UPC	NO.
01432 5	**DT80-1**

Optional Accessories: see page I-52/53

DT80-1

DUAL THERMOCOUPLE DIGITAL THERMOMETER

Ideal for measuring the differential between two very high or low temperatures in an industrial or commercial environment.

FEATURES

- Dual 5-digit LCD
- Wide measurement range
- Measurement accuracy of ± 0.05% of reading
- Auto power off
- Includes two "K" type thermocouples

SPECIFICATIONS

- ♦ Measurement Range: -328° to 1922°F (-200° to 1050°C) with J-type thermocouple; -328° to 2498°F (-200° to 1370°C) with K-type thermocouple
- ♦ Measurement Accuracy: ± 0.05% of reading
- ♦ Display Size/Type: 1.5 x 1.5 in. (38 x 38mm)/ black & white liquid crystal
- ♦ Operating Temperature: 40° to 104°F (5° to 40°C)@<80% RH
- ♦ Storage Temperature: 14° to 140°F (-10° to 60°C)@<70% RH
- ♦ Input Protection: 24V DC or AC, max
- ♦ Power Source: 9V battery
- ♦ Battery Life: 200 hours, typical
- ♦ Dimensions: 5.12(L) x 2.2(W) x 1.50(H) in. (130 x 56 x38 mm)
- ♦ Weight: 6 oz. (170g)
- ♦ Auto Power Off Trigger: 15 minutes of inactivity
- ♦ Powered Source: 1 "9V" battery (included)

Includes: • 2 "K" type thermocouples
• Battery
• User's manual

UPC	NO.
01433 2	**DT80-2**

Optional Accessories: see page I-52/53

DT80-2

DIGITAL THERMOCOUPLE THERMOMETER

For use in labs, industrial control and audits and temperature differentials T1-T2.

FEATURES

- Dual input
- Includes two "K" type thermocouples; also compatible with "T" type
- °F/°C switch
- Backlit LCD display
- Data hold + auto power off
- Low battery indicator
- RS-232 output for uploading data logs
- CE and RoHS approved

SPECIFICATIONS

- ♦ Measurement Range with "K" type Thermocouple: -328° to 2498°F (-200° to 1370°C)
- ♦ Measurement Accuracy: 0.1% (±1°F)
- ♦ Response Time: 1 sec.
- ♦ Dimensions: 7.16 x 2.83 x 1.18 in. (182 x 72 x 30mm)
- ♦ Weight: 7.8 oz. (220g)
- ♦ Power Source: 1 "9V" battery (included)

Includes: • 2 "K" type probes (TPK500)
• Molded hard case • Battery

UPC	NO.
21012 3	**DT8852**
12710 0	**ASFT KIT** PC Interface Kit (optional)

Other Optional Accessories: see page I-52/53

CE RoHS

DT8852

GENERAL®

"Man is a tool using animal. Weak in himself and of small stature, he stands on a basis of some half-square-foot, and has to straddle out his legs lest the very winds supplant him. Nevertheless, he can use tools, can devise tools; with these the granite mountains melt into light dust before him; seas are his smooth highways, winds and fire his unwearying steeds, Nowhere do you find him without tools. Without tools he is nothing, but with tools he is all."

Thomas Carlyle (1795–1881)

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